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CONTENTS

NUMBER I.

	PAGE
THE SPECTRUM OF HYDROGEN GIVEN BY THE METALLIC ARC OF TIN, COPPER, SILVER, ETC. O. H. Basquin - - - -	1
ON A POSSIBLE FUNCTION OF DISRUPTIVE APPROACH IN THE FORMATION OF METEORITES, COMETS, AND NEBULÆ. T. C. Chamberlin - - - -	17
THE SHIFT OF THE CADMIUM LINE OF WAVE-LENGTH 4800 DUE TO PRESSURE. William B. Huff - - - -	41
ON THE COMPOUND TRIPLETS IN THE LINE SPECTRUM OF MERCURY. C. Runge and F. Paschen - - - -	49
THE MOTION OF <i>Polaris</i> IN THE LINE OF SIGHT. J. Hartmann -	52
MINOR CONTRIBUTIONS AND NOTES: The Publications of the Allegheny Observatory, F. L. O. Wadsworth, 66; Spectrum of <i>Nova Persei</i> No. 2, Edward C. Pickering, 79; <i>Nova Persei</i> No. 2, Edward C. Pickering, 82.	

NUMBER II.

THE ABSORPTION SPECTRUM OF CHLORINE. Elizabeth R. Laird -	85
SOME PROPERTIES OF THE ELECTRIC SPARK AND ITS SPECTRUM. Charles C. Schenck - - - -	116
MINOR CONTRIBUTIONS AND NOTES: Note on a New Form of Radiometer, F. A. Saunders, 136; Some Recent Results Secured with the Mills Spectrograph, W. W. Campbell, 138; Objects Having Peculiar Spectra, Edward C. Pickering, 144; Latitude and Longitude of the Yerkes Observatory, George E. Hale, 146.	

NUMBER III.

OBSERVATIONS AND EPHEMERIDES OF THE VARIABLE STAR <i>V Cygni</i> . N. C. Dunér - - - -	149
PECULIARITY OF FOCAL OBSERVATIONS ON THE PLANETARY NEBULÆ AND VISUAL OBSERVATIONS OF <i>Nova Persei</i> WITH THE FORTY-INCH YERKES TELESCOPE. E. E. Barnard - - - -	151

	PAGE
OBSERVATIONS OF THE EARLIER SPECTRUM OF <i>Nova Persei</i> . Walter S. Adams - - - - -	158
NEBULOSITY ABOUT <i>Nova Persei</i> . G. W. Ritchey - - - - -	167
NOTES ON VARIABLE STARS. J. A. Parkhurst - - - - -	169
THE WAVE-NUMBER SYSTEM OF RHODIUM. C. P. Snyder - - - - -	179
SPECTROSCOPIC STUDIES. I. Eduard Haschek - - - - -	181
MINOR CONTRIBUTIONS AND NOTES: Observations of the Spectroscopic Binary η <i>Pegasi</i> , W. W. Campbell, 202; The Orbit of the Spectroscopic Binary η <i>Pegasi</i> , Russell Tracy Crawford, 203; Opposition of <i>Eros</i> (433) in 1903, Edward C. Pickering, 209; The Inferior Conjunction of <i>Mercury</i> on November 4, 1901, F. Ristenpart, 213; Publication of a New Catalogue of Variable Stars, Messrs. Dunér, Hartwig, Müller, Oudemans, 214; A Correction, H. Seeliger, 215; Concerning the Paper "On the Absorption Spectrum of Chlorine," Elizabeth R. Laird, 215.	

NUMBER IV.

THE TWO-FOOT REFLECTING TELESCOPE OF THE YERKES OBSERVATORY. G. W. Ritchey - - - - -	217
ON THE TEMPERATURE AND COMPOSITION OF THE ATMOSPHERES OF THE PLANETS AND THE SUN. E. Rogovsky - - - - -	234
MINOR CONTRIBUTIONS AND NOTES: Observations of the Spectroscopic Binary <i>Capella</i> , W. W. Campbell, 261; A Determination of the Orbit of <i>Capella</i> , H. M. Reese, 263; Observations of the Spectrum of <i>Nova Persei</i> , W. W. Campbell and W. H. Wright, 269; Note on the Spectrum of <i>Nova Persei</i> , Joel Stebbins, 292; Changes in the Nebulosity about <i>Nova Persei</i> , G. W. Ritchey, 293.	

NUMBER V.

A RUDE ATTEMPT TO DETERMINE THE TOTAL LIGHT OF ALL THE STARS. Simon Newcomb - - - - -	297
SPECTRAL PHENOMENA CONNECTED WITH THE COOLING OF VERY HOT STARS. H. Kayser - - - - -	313
ON DRIFT IN LONGITUDE OF GROUPS OF FACULÆ ON THE SUN'S SURFACE. A. L. Cortie - - - - -	317
SOME NEW PECULIARITIES IN THE STRUCTURE OF THE CYANOGEN BANDS. A. S. King - - - - -	323

CONTENTS

vii

FOCAL SINGULARITIES OF PLANE GRATINGS. S. A. Mitchell - -	PAGE 331
ON THE HEAT RADIATION OF LONG WAVE-LENGTH EMITTED BY BLACK BODIES AT DIFFERENT TEMPERATURES. H. Rubens and F. Kurlbaum - - - - -	335
MINOR CONTRIBUTIONS AND NOTES: Preliminary Report of Obser- vations of the Total Solar Eclipse of 1901, May 17-18, C. D. Perrine, 349; Motion in the Faint Nebula Surrounding <i>Nova</i> <i>Persei</i> , C. D. Perrine, 359; The Amherst Eclipse Expedition to Singkep, 1901, D. P. Todd, 362; The Spectrum of <i>Nova</i> <i>Persei</i> , W. Sidgreaves, 366; Spectrum of Lightning, E. C. Pickering, 367; Motion in the Line of Sight, William Huggins, 369.	
REVIEW: Recherches Expérimentales sur les Spectres d'Étincelles, G. A. Hemsalech (H. C.), 370.	

PLATE I



FIG. 1.—TIN ARC IN HYDROGEN (FIRST ORDER)

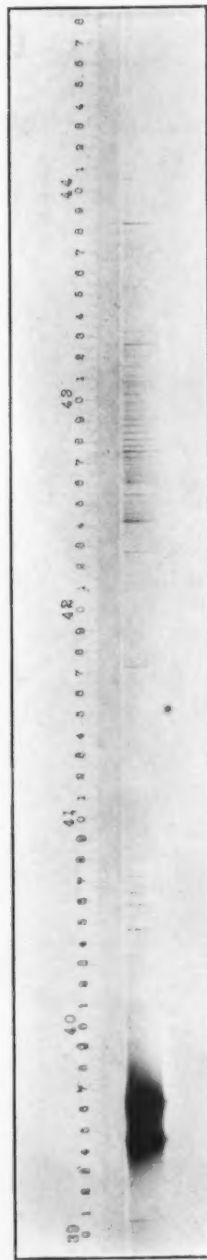


FIG. 2.—ALUMINIUM ARC IN AMMONIA (SECOND ORDER)